

UUCMS No.

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B.M.S COLLEGE FOR WOMEN, AUTONOMOUS
BENGALURU – 560004
SEMESTER END EXAMINATION – MARCH/APRIL- 2023

B.Voc-IT – III Semester

OPERATING SYSTEMS
(NEP Scheme 2021-22 onwards)

Course Code: BVIT3DSC07

Duration: 2 ½ Hours

QP Code: 3033

Max. Marks: 60

Instructions: Answer all the sections.

PART-A

Answer any TEN questions. Each question carries TWO marks.

(10X2=20)

1. What is an operating system? Mention any two functions of OS.
2. Define a process.
3. Define multithreading. Give one example.
4. What is a system call? Mention any two types of system calls.
5. Define semaphore.
6. What are the necessary conditions for deadlock?
7. What is dynamic loading?
8. Define page fault.
9. Define virtual memory.
10. Mention any four file operations
11. Define seek time.
12. What is disk formatting?

PART-B

Answer any FIVE questions. Each question carries FOUR marks.

(5X4=20)

13. Explain multiprogramming systems. Mention its advantages.
14. With a neat diagram, explain states of process.
15. What is critical section problem? Explain.
16. Compare first fit, best fit and worst fit allocation of memory.
17. What is fragmentation? Explain external fragmentation.
18. What are the different types of file accessing methods? Explain.
19. Describe resource allocation graph with necessary diagram.

PART-C

Answer any TWO questions. Each question carries TEN marks

(2X10=20)

20. Explain types of operating systems. Mention its advantages.
21. Write a note on PCB and dining-philosopher's problem
22. Explain deadlock prevention methods.
23. Explain different types of disk scheduling methods with one example.

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